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L1	0	weather and ("principal component analysis" or pca) and "neural network" and (map or rotate) and (regression or predict).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/20 21:57
L2	13	weather and ("principal component analysis" or pca) and "neural network" and (map or rotate) and (regression or predict)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/20 21:57

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3	6,546,378	Signal interpretation engine
4	6,106,785	Polymerization process controller

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1 Introduction to Bayesian learning

Aaron Hertzmann

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(899.54 KB) Additional Information: full citation, abstract

Sophisticated computer graphics applications require complex models of appearance, motion, natural phenomena, and even artistic style. Such models are often difficult or impossible to design by hand. Recent research demonstrates that, instead, we can "learn" a dynamical and/or appearance model from captured data, and then synthesize realistic new data from the model. For example, we can capture the motions of a human actor and then generate new motions as they might be performed by that actor. B ...

2 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(18.15 MB) Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

3 Weather Data Mining Using Independent Component Analysis

Jayanta Basak, Anant Sudarshan, Deepak Trivedi, M. S. Santhanam

December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available: pdf(544.38 KB) Additional Information: full citation, abstract, index terms

In this article, we apply the independent component analysis technique for mining spatio-temporal data. The technique has been applied to mine for patterns in weather data using the North Atlantic Oscillation (NAO) as a specific example. We find that the strongest independent components match the observed synoptic weather patterns corresponding to the NAO. We also validate our results by matching the independent component activities with the NAO index.

4 Think globally, fit locally: unsupervised learning of low dimensional manifolds

Lawrence K. Saul, Sam T. Roweis
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press

Full text available: pdf(2.91 MB) Additional Information: full citation, abstract, references, citings, index terms

The problem of dimensionality reduction arises in many fields of information processing, including machine learning, data compression, scientific visualization, pattern recognition, and neural computation. Here we describe locally linear embedding (LLE), an unsupervised learning algorithm that computes low dimensional, neighborhood preserving embeddings of high dimensional data. The data, assumed to be sampled from an underlying manifold, are mapped into a single global coordinate system of lowe ...

5 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2
Publisher: ACM Press
Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

6 Regularized principal manifolds

Alexander J. Smola, Sebastian Mika, Bernhard Schölkopf, Robert C. Williamson
September 2001 **The Journal of Machine Learning Research**, Volume 1
Publisher: MIT Press
Full text available: pdf(770.51 KB) Additional Information: full citation, abstract, citings

Many settings of unsupervised learning can be viewed as quantization problems - the minimization of the expected quantization error subject to some restrictions. This allows the use of tools such as regularization from the theory of (supervised) risk minimization for unsupervised learning. This setting turns out to be closely related to principal curves, the generative topographic map, and robust coding.We explore this connection in two ways: (1) we propose an algorithm for finding principal man ...

7 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

8 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(4.28 MB) terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

9 Technical session 6: learning in multi-modal data: Optimal multimodal fusion for multimedia data analysis

Yi Wu, Edward Y. Chang, Kevin Chen-Chuan Chang, John R. Smith

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(350.22 KB) Additional Information: full citation, abstract, references, index terms

Considerable research has been devoted to utilizing multimodal features for better understanding multimedia data. However, two core research issues have not yet been adequately addressed. First, given a set of features extracted from multiple media sources (e.g., extracted from the visual, audio, and caption track of videos), how do we determine the best modalities? Second, once a set of modalities has been identified, how do we best fuse them to map to semantics? In this paper, we propose a ...

Keywords: curse of dimensionality, independent analysis, modality independence, multimodal fusion, super-kernel fusion

10 Kernel independent component analysis

Francis R. Bach, Michael I. Jordan

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(561.46 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a class of algorithms for independent component analysis (ICA) which use contrast functions based on canonical correlations in a reproducing kernel Hilbert space. On the one hand, we show that our contrast functions are related to mutual information and have desirable mathematical properties as measures of statistical dependence. On the other hand, building on recent developments in kernel methods, we show that these criteria and their derivatives can be computed efficiently. Minimizi ...

Keywords: Stiefel manifold, blind source separation, canonical correlations, gram matrices, incomplete Cholesky decomposition, independent component analysis, integral equations, kernel methods, mutual information, semiparametric models

11 Stable algorithms for link analysis

Andrew Y. Ng, Alice X. Zheng, Michael I. Jordan

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(208.24 KB) Additional Information: full citation, abstract, references, citings, index terms

The Kleinberg HITS and the Google PageRank algorithms are eigenvector methods for identifying ``authoritative'' or ``influential'' articles, given hyperlink or citation information. That such algorithms should give reliable or consistent answers is surely a

desideratum, and in~\cite{ijcaiPaper}, we analyzed when they can be expected to give stable rankings under small perturbations to the linkage patterns. In this paper, we extend the analysis and show how it gives insight into ways of de ...

12 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

13 Motion texture: a two-level statistical model for character motion synthesis

Yan Li, Tianshu Wang, Heung-Yeung Shum

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques SIGGRAPH '02**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(5.06 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe a novel technique, called motion texture, for synthesizing complex human-figure motion (e.g., dancing) that is statistically similar to the original motion captured data. We define motion texture as a set of motion textons and their distribution, which characterize the stochastic and dynamic nature of the captured motion. Specifically, a motion texton is modeled by a linear dynamic system (LDS) while the texton distribution is represented by a transition matrix indicat ...

Keywords: linear dynamic systems, motion editing, motion synthesis, motion texture, texture synthesis

14 A review of vessel extraction techniques and algorithms

Cemil Kirbas, Francis Quek

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Publisher: ACM Press

Full text available: pdf(8.06 MB) Additional Information: full citation, abstract, references, index terms

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurosvascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

15 Research track papers: Fast nonlinear regression via eigenimages applied to galactic morphology

Brigham Anderson, Andrew Moore, Andrew Connolly, Robert Nichol

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press
Full text available: pdf(187.88 KB) Additional Information: full citation, abstract, references, index terms

Astronomy increasingly faces the issue of massive, unwieldly data sets. The Sloan Digital Sky Survey (SDSS) [11] has so far generated tens of millions of images of distant galaxies, of which only a tiny fraction have been morphologically classified. Morphological classification in this context is achieved by fitting a parametric model of galaxy shape to a galaxy image. This is a nonlinear regression problem, whose challenges are threefold, 1) blurring of the image caused by atmosphere and mirror ...

Keywords: astronomy, morphology, nearest neighbor, pincipal component analysis, regression

16 Classification and regression: money *can* grow on trees

Johannes Gehrke, Wie-Yin Loh, Raghu Ramakrishnan
August 1999 **Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(2.95 MB) Additional Information: full citation, abstract, references, citings, index terms

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces clicking on hyperlinks and searching via keyword queries This process is often tentative and unsatisfactory Better support is needed for expressing one's information need and dealing with a search result in more structured ways than ...

17 Dimensionality Reduction for Supervised Learning with Reproducing Kernel Hilbert Spaces

Kenji Fukumizu, Francis R. Bach, Michael I. Jordan
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press
Full text available: pdf(389.63 KB) Additional Information: full citation, abstract, citings, index terms

We propose a novel method of dimensionality reduction for supervised learning problems. Given a regression or classification problem in which we wish to predict a response variable *Y* from an explanatory variable *X*, we treat the problem of dimensionality reduction as that of finding a low-dimensional "effective subspace" for *X* which retains the statistical relationship between *X* and *Y*. We show that this problem can be formulated in terms of conditional independe ...

18 Skin & faces: SCAPE: shape completion and animation of people

Dragomir Anguelov, Praveen Srinivasan, Daphne Koller, Sebastian Thrun, Jim Rodgers, James Davis
July 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(625.49 KB) Additional Information: full citation, abstract, references, index terms

We introduce the SCAPE method (Shape Completion and Animation for PEople)---a data-driven method for building a human shape model that spans variation in both subject shape and pose. The method is based on a representation that incorporates both articulated and non-rigid deformations. We learn a *pose deformation model* that derives the non-rigid surface deformation as a function of the pose of the articulated skeleton. We also learn a separate model of variation based on body shape. Our tw ...

Keywords: animation, deformations, morphing, synthetic actors

19 A survey of image registration techniques



Lisa Gottesfeld Brown
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4
Publisher: ACM Press

Full text available: pdf(5.20 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching



20 Task clustering and gating for bayesian multitask learning



Bart Bakker, Tom Heskes
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press

Full text available: pdf(229.33 KB) Additional Information: full citation, abstract, references, citings, index terms

Modeling a collection of similar regression or classification tasks can be improved by making the tasks 'learn from each other'. In machine learning, this subject is approached through 'multitask learning', where parallel tasks are modeled as multiple outputs of the same network. In multilevel analysis this is generally implemented through the mixed-effects linear model where a distinction is made between 'fixed effects', which are the same for all tasks, and 'random effects', which may vary bet ...

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21 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

22 Clustering stream data by regression analysis
Masahiro Motoyoshi, Takao Miura, Isamu Shioya
January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32 CRPIT '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(161.27 KB) Additional Information: full citation, abstract, references

In data clustering, many approaches have been proposed such as K-means method and hierarchical method. One of the problems is that the results depend heavily on initial values and criterion to combine clusters. In this investigation, we propose a new method to cluster stream data while avoiding this deficiency. Here we assume there exists aspects of local regression in data. Then we develop our theory to combine clusters using *F* values by regression analysis as criterion and to adapt to s ...

Keywords: clustering for stream, data mining, data stream, regression analysis

23 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.64 MB) Additional Information: full citation

24 Learning a Mahalanobis Metric from Equivalence Constraints
Aharon Bar-Hillel, Tomer Hertz, Noam Shental, Daphna Weinshall
September 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: Additional Information:

pdf(868.95 KB) full citation, abstract

Many learning algorithms use a metric defined over the input space as a principal tool, and their performance critically depends on the quality of this metric. We address the problem of learning metrics using side-information in the form of equivalence constraints. Unlike labels, we demonstrate that this type of side-information can sometimes be automatically obtained without the need of human intervention. We show how such side-information can be used to modify the representation of the data, l ...

25 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(13.99 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

26 Special issue on special feature: Feature extraction by non parametric mutual information maximization

Kari Torkkola
March 2003 **The Journal of Machine Learning Research**, Volume 3
Publisher: MIT Press
Full text available: pdf(357.19 KB) Additional Information: full citation, abstract, index terms

We present a method for learning discriminative feature transforms using as criterion the mutual information between class labels and transformed features. Instead of a commonly used mutual information measure based on Kullback-Leibler divergence, we use a quadratic divergence measure, which allows us to make an efficient non-parametric implementation and requires no prior assumptions about class densities. In addition to linear transforms, we also discuss nonlinear transforms that are implement ...

27 Article abstracts with full text online: Object oriented software quality prediction using general regression neural networks

S. Kanmani, V. Rhymend Uthariaraj, V. Sankaranarayanan, P. Thambidurai
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(273.24 KB) Additional Information: full citation, abstract, references

This paper discusses the application of General Regression Neural Network (GRNN) for predicting the software quality attribute -- fault ratio. This study is carried out using static Object-Oriented (OO) measures (64 in total) as the independent variables and fault ratio as the dependent variable. Software metrics used include those concerning inheritance, size, cohesion and coupling. Prediction models are designed using 15 possible combinations of the four categories of the measures. We also tes ...

Keywords: metrics, neural network, object oriented, software quality

28 Styles of human motion: Geostatistical motion interpolation

Tomohiko Mukai, Shigeru Kuriyama
July 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(475.51 KB) Additional Information: full citation, abstract, references, index terms

A common motion interpolation technique for realistic human animation is to blend similar motion samples with weighting functions whose parameters are embedded in an abstract space. Existing methods, however, are insensitive to statistical properties, such as correlations between motions. In addition, they lack the capability to quantitatively evaluate the reliability of synthesized motions. This paper proposes a method that treats motion interpolations as statistical predictions of missing data ...

Keywords: geostatistics, humanoid animation, kriging, motion dataset, motion interpolation, statistical prediction, variogram

29 Real world applications: Nonlinear feature extraction using a neuro genetic hybrid

Yung-Keun Kwon, Byung-Ro Moon
June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**
Publisher: ACM Press
Full text available: pdf(361.05 KB) Additional Information: full citation, abstract, references, index terms

Feature extraction is a process that extracts salient features from observed variables. It is considered a promising alternative to overcome the problems of weight and structure optimization in artificial neural networks. There were many nonlinear feature extraction methods using neural networks but they still have the same difficulties arisen from the fixed network topology. In this paper, we propose a novel combination of genetic algorithm and feedforward neural networks for nonlinear feature ...

Keywords: feature extraction, function approximation, neuro-genetic hybrid

30 Special issue on kernel methods: Kernel partial least squares regression in reproducing kernel hilbert space

Roman Rosipal, Leonard J. Trejo
March 2002 **The Journal of Machine Learning Research**, Volume 2
Publisher: MIT Press
Full text available: pdf(260.73 KB) Additional Information: full citation, abstract

A family of regularized least squares regression models in a Reproducing Kernel Hilbert Space is extended by the kernel partial least squares (PLS) regression model. Similar to principal components regression (PCR), PLS is a method based on the projection of input (explanatory) variables to the latent variables (components). However, in contrast to PCR, PLS creates the components by modeling the relationship between input and output variables while maintaining most of the information in the inpu ...

31 Plenary papers: An object-based video coding framework for video sequences obtained from static cameras

Asaad Hakeem, Khurram Shafique, Mubarak Shah
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(2.24 MB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel object-based video coding framework for videos obtained from a static camera. As opposed to most existing methods, the proposed method does not require explicit 2D or 3D models of objects and hence is general enough to cater for varying types of objects in the scene. The proposed system detects and tracks objects in the scene and learns the appearance model of each object online using incremental principal component analysis (IPCA). Each object is then coded using the ...

Keywords: affine and projective transformation, background subtraction, contour-based tracking, incremental PCA, object-based video coding, tracking

32 Motion capture and editing: An efficient search algorithm for motion data using weighted PCA

K. Forbes, E. Fiume

July 2005 **Proceedings of the 2005 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '05**

Publisher: ACM Press

Full text available: pdf(2.90 MB) Additional Information: full citation, abstract, references, index terms

Good motion data is costly to create. Such an expense often makes the reuse of motion data through transformation and retargetting a more attractive option than creating new motion from scratch. Reuse requires the ability to search automatically and efficiently a growing corpus of motion data, which remains a difficult open problem. We present a method for quickly searching long, unsegmented motion clips for subregions that most closely match a short query clip. Our search algorithm is based on ...

33 Skinning: Multi-weight enveloping: least-squares approximation techniques for skin animation

Xiaohuan Corina Wang, Cary Phillips

July 2002 **Proceedings of the 2002 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Publisher: ACM Press

Full text available: pdf(7.73 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a process called *multi-weight enveloping* for deforming the skin geometry of the body of a digital creature around its skeleton. It is based on a deformation equation whose coefficients we compute using a statistical fit to an input *training exercise.* In this input, the skeleton and the skin move together, by arbitrary external means, through a range of motion representative of what the creature is expected to achieve in practice. The input can also come from existing pie ...

Keywords: enveloping, skinning, surface deformation

34 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB) Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

35 Empirical software engineering: Use of relative code churn measures to predict system defect density

Nachiappan Nagappan, Thomas Ball

May 2005 **Proceedings of the 27th international conference on Software engineering**

Publisher: ACM Press

Full text available: pdf(286.51 KB) Additional Information: full citation, abstract, references, index terms

Software systems evolve over time due to changes in requirements, optimization of code, fixes for security and reliability bugs etc. Code churn, which measures the changes made to a component over a period of time, quantifies the extent of this change. We present a technique for early prediction of system defect density using a set of relative code churn measures that relate the amount of churn to other variables such as component size and

the temporal extent of churn.Using statistical regressio ...

Keywords: defect density, fault-proneness, multiple regression, principal component analysis, relative code churn

36 Self-tuning cost modeling of user-defined functions in an object-relational DBMS

Zhen He, Byung Suk Lee, Robert Snapp
September 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, index terms

Query optimizers in object-relational database management systems typically require users to provide the execution cost models of user-defined functions (UDFs). Despite this need, however, there has been little work done to provide such a model. The existing approaches are static in that they require users to train the model a priori with pregenerated UDF execution cost data. Static approaches can not adapt to changing UDF execution patterns and thus degrade in accuracy when the UDF executions u ...

Keywords: *K*-nearest neighbors, cost modeling, object relational DBMS, quadtree, query optimization, self-tuning

37 Designing a quality voice: an analysis of listeners' reactions to synthetic voices

M. B. Rosson, A. J. Cecala
April 1986 **ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems CHI '86**, Volume 17 Issue 4
Publisher: ACM Press
Full text available: pdf(723.22 KB) Additional Information: full citation, abstract, references, index terms

Eight subjects listened to a set of synthetic voices reflecting a crossing of four voice qualities: head size, pitch, richness and smoothness. The listeners evaluated the voices on sixteen perceptual scales, and judged each voice's appropriateness for twenty voice-output scenarios. Factor analysis of the perceptual ratings recovered two factors, fullness and clarity. A similar analysis of the appropriateness ratings revealed three situational factors, information, entertainment and feedback ...

38 Support vector machines: hype or hallelujah?

Kristin P. Bennett, Colin Campbell
December 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(1.26 MB) Additional Information: full citation, citings, index terms

Keywords: Support Vector Machines, kernel methods, statistical learning theory

39 A morphable model for the synthesis of 3D faces

Volker Blanz, Thomas Vetter
July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: pdf(2.76 MB) Additional Information: full citation, references, citings, index terms

Keywords: computer vision, facial animation, facial modeling, morphing, photogrammetry, registration

40 Motion capture data: interaction and selection: Performance animation from low-dimensional control signals

Jinxiang Chai, Jessica K. Hodgins

July 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, index terms

This paper introduces an approach to performance animation that employs video cameras and a small set of retro-reflective markers to create a low-cost, easy-to-use system that might someday be practical for home use. The low-dimensional control signals from the user's performance are supplemented by a database of pre-recorded human motion. At run time, the system automatically learns a series of local models from a set of motion capture examples that are a close match to the marker locations cap ...

Keywords: dimensionality reduction, lazy learning, local modeling, motion capture data, online control of human motion, performance animation, vision-based interface

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41 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

42 Algorithmic Stability and Meta-Learning

Andreas Maurer
September 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(198.78 KB) Additional Information: full citation, abstract

A mechnism of transfer learning is analysed, where samples drawn from different learning tasks of an environment are used to improve the learners performance on a new task. We give a general method to prove generalisation error bounds for such meta-algorithms. The method can be applied to the bias learning model of J. Baxter and to derive novel generalisation bounds for meta-algorithms searching spaces of uniformly stable algorithms. We also present an application to regularized least squares re ...

43 Prediction & verification: Static analysis tools as early indicators of pre-release defect density

Nachiappan Nagappan, Thomas Ball
May 2005 **Proceedings of the 27th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(172.96 KB) Additional Information: full citation, abstract, references, index terms

During software development it is helpful to obtain early estimates of the defect density of software components. Such estimates identify fault-prone areas of code requiring further testing. We present an empirical approach for the early prediction of pre-release defect density based on the defects found using static analysis tools. The defects identified by two different static analysis tools are used to fit and predict the actual pre-release defect

density for Windows Server 2003. We show that ...

Keywords: defect density, fault-proneness, static analysis tools, statistical methods

44 Semantic discrimination analysis for feature selection

James F. Baldwin, Trevor P. Martin, Christiane Ponsan

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**

Publisher: ACM Press

Full text available: pdf(462.14 KB) Additional Information: full citation, references, index terms

45 Numerical computations: its nature and research directions

J. R. Rice, C. W. Gear, J. Ortega, B. Parlett, M. Schultz, L. F. Shampine, P. Wolfe, J. F. Traub

February 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue si-1

Publisher: ACM Press

Full text available: pdf(4.43 MB) Additional Information: full citation, abstract, references

This report on research in numerical computation is part of the Computer Science and Engineering Research Study (COSERS) which is aimed at technically educated people outside the Computer Science field. This goal led the panel to face many difficult choices between precise, but excessively technical, descriptions and looser, but more accessible expositions. The panel hopes that all readers will keep this in mind.

46 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

47 The em algorithm for kernel matrix completion with auxiliary data

Koji Tsuda, Shotaro Akaho, Kiyoshi Asai

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

Full text available: pdf(135.56 KB) Additional Information: full citation, abstract, references, citings, index terms

In biological data, it is often the case that observed data are available only for a subset of samples. When a kernel matrix is derived from such data, we have to leave the entries for unavailable samples as missing. In this paper, the missing entries are completed by exploiting an auxiliary kernel matrix derived from another information source. The parametric model of kernel matrices is created as a set of spectral variants of the auxiliary kernel matrix, and the missing entries are estimated b ...

48 A data-driven reflectance model

Wojciech Matusik, Hanspeter Pfister, Matt Brand, Leonard McMillan

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(38.42 MB) Additional Information: full citation, abstract, references

We present a generative model for isotropic bidirectional reflectance distribution functions (BRDFs) based on acquired reflectance data. Instead of using analytical reflectance models, we represent each BRDF as a dense set of measurements. This allows us to interpolate and extrapolate in the space of acquired BRDFs to create new BRDFs. We treat each acquired BRDF as a single high-dimensional vector taken from a space of all possible BRDFs. We apply both linear (subspace) and non-linear (manifold ...

Keywords: BRDF, image-based modeling, light reflection models, photometric measurements, reflectance

49 Categorization and supervised machine learning: Multi-label informed latent semantic indexing

Kai Yu, Shipeng Yu, Volker Tresp

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Publisher: ACM Press

Full text available: pdf(257.72 KB) Additional Information: full citation, abstract, references, index terms

Latent semantic indexing (LSI) is a well-known unsupervised approach for dimensionality reduction in information retrieval. However if the output information (i.e. category labels) is available, it is often beneficial to derive the indexing not only based on the inputs but also on the target values in the training data set. This is of particular importance in applications with *multiple labels*, in which each document can belong to several categories simultaneously. In this paper we introdu ...

Keywords: dimensionality reduction, latent semantic indexing, multi-label classification, supervised projection

50 Prior knowledge and preferential structures in gradient descent learning algorithms

Robert E. Mahony, Robert C. Williamson

September 2001 **The Journal of Machine Learning Research**, Volume 1

Publisher: MIT Press

Full text available: pdf(539.02 KB) Additional Information: full citation, abstract

A family of gradient descent algorithms for learning linear functions in an online setting is considered. The family includes the classical LMS algorithm as well as new variants such as the Exponentiated Gradient (EG) algorithm due to Kivinen and Warmuth. The algorithms are based on prior distributions defined on the weight space. Techniques from differential geometry are used to develop the algorithms as gradient descent iterations with respect to the natural gradient in the Riemannian structur ...

51 Analog Macromodeling using Kernel Methods

Joel Phillips, João Afonso, Arlindo Oliveira, L. Miguel Silveira

November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: pdf(238.58 KB) Additional Information: full citation, abstract, index terms

In this paper we explore the potential of using a general class offunctional representation techniques, kernel-based regression, inthe nonlinear model reduction problem. The kernel-based view-pointprovides a convenient computational framework for regression,unifying and extending the previously proposed polynomialand piecewise-linear reduction methods. Furthermore, as many familiarmethods for linear system manipulation can be leveraged ina nonlinear context, kernels provide insight into how new, ...

52 Facial animation & hair: Vision-based control of 3D facial animation

Jin-xiang Chai, Jing Xiao, Jessica Hodgins

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on**

Computer animation SCA '03
Publisher: Eurographics Association

Full text available: pdf(12.59 MB) Additional Information: full citation, abstract, references, citings, index terms

Controlling and animating the facial expression of a computer-generated 3D character is a difficult problem because the face has many degrees of freedom while most available input devices have few. In this paper, we show that a rich set of lifelike facial actions can be created from a preprocessed motion capture database and that a user can control these actions by acting out the desired motions in front of a video camera. We develop a real-time facial tracking system to extract a small set of a ...

53 Performance-driven hand-drawn animation

Ian Buck, Adam Finkelstein, Charles Jacobs, Allison Klein, David H. Salesin, Joshua Seims, Richard Szeliski, Kentaro Toyama
June 2000 **Proceedings of the 1st international symposium on Non-photorealistic animation and rendering**
Publisher: ACM Press
Full text available: pdf(1.82 MB) Additional Information: full citation, references, citings, index terms

Keywords: animation, face tracking, image morphing, non-photorealistic rendering

54 Clustered principal components for precomputed radiance transfer

Peter-Pike Sloan, Jesse Hall, John Hart, John Snyder
July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: pdf(9.29 MB) Additional Information: full citation, abstract, references, citings

We compress storage and accelerate performance of precomputed radiance transfer (PRT), which captures the way an object shadows, scatters, and reflects light. PRT records over many surface points a transfer matrix. At run-time, this matrix transforms a vector of spherical harmonic coefficients representing distant, low-frequency source lighting into exiting radiance. Per-point transfer matrices form a high-dimensional surface signal that we compress using *clustered principal component analysi ...*

Keywords: *graphics hardware, illumination, monte carlo techniques, rendering, shadow algorithms*

55 Investigating quality factors in object-oriented designs: an industrial case study

Lionel C. Briand, Jürgen Wüst, Stefan V. Ikonomovski, Hakim Lounis
May 1999 **Proceedings of the 21st international conference on Software engineering**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.41 MB) Additional Information: full citation, references, citings, index terms

Keywords: cohesion, coupling, empirical validation, measurement, metrics, object-oriented

56 The principled design of large-scale recursive neural network architectures--dag-rnns and the protein structure prediction problem

Pierre Baldi, Gianluca Pollastri
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(231.40 KB) Additional Information: full citation, abstract, references, index terms

We describe a general methodology for the design of large-scale recursive neural network architectures (DAG-RNNs) which comprises three fundamental steps: (1) representation of a given domain using suitable directed acyclic graphs (DAGs) to connect visible and hidden node variables; (2) parameterization of the relationship between each variable and its parent variables by feedforward neural networks; and (3) application of weight-sharing within appropriate subsets of DAG connections to capture s ...

57 Session P4: simplification: Attribute preserving dataset simplification

Jason D. Walter, Christopher G. Healey
October 2001 **Proceedings of the conference on Visualization '01**
Publisher: IEEE Computer Society
Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, index terms
Publisher Site

This paper describes a novel application of feature preserving mesh simplification to the problem of managing large, multidimensional datasets during scientific visualization. To allow this, we view a scientific dataset as a triangulated mesh of data elements, where the attributes embedded in each element form a set of properties arrayed across the surface of the mesh. Existing simplification techniques were not designed to address the high dimensionality that exists in these types of datasets. ...

Keywords: dataset management, mesh simplification, principal component analysis, scientific visualization

58 Denoising Source Separation

Jaakko Särelä, Harri Valpola
September 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(1.95 MB) Additional Information: full citation, abstract

A new algorithmic framework called denoising source separation (DSS) is introduced. The main benefit of this framework is that it allows for the easy development of new source separation algorithms which can be optimised for specific problems. In this framework, source separation algorithms are constructed around denoising procedures. The resulting algorithms can range from almost blind to highly specialised source separation algorithms. Both simple linear and more complex nonlinear or adaptive ...

59 Denoising Source Separation

Jaakko Särelä, Harri Valpola
April 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(2.02 MB) Additional Information: full citation, abstract

A new algorithmic framework called denoising source separation (DSS) is introduced. The main benefit of this framework is that it allows for the easy development of new source separation algorithms which can be optimised for specific problems. In this framework, source separation algorithms are constructed around denoising procedures. The resulting algorithms can range from almost blind to highly specialised source separation algorithms. Both simple linear and more complex nonlinear or adaptive ...

60 Variational Message Passing

John Winn, Christopher M. Bishop
September 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(456.23 KB) Additional Information: full citation, abstract

Bayesian inference is now widely established as one of the principal foundations for machine learning. In practice, exact inference is rarely possible, and so a variety of approximation techniques have been developed, one of the most widely used being a

deterministic framework called variational inference. In this paper we introduce Variational Message Passing (VMP), a general purpose algorithm for applying variational inference to Bayesian Networks. Like belief propagation, VMP proceeds by send ...

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